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1 [Visualization: Query, analysis, and visualization of hierarchically structured data using Polaris](#)



Chris Stolte, Diane Tang, Pat Hanrahan

 July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '02**

Publisher: ACM Press

Full text available: pdf(10.02 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In the last several years, large OLAP databases have become common in a variety of applications such as corporate data warehouses and scientific computing. To support interactive analysis, many of these databases are augmented with hierarchical structures that provide meaningful levels of abstraction that can be leveraged by both the computer and analyst. This hierarchical structure generates many challenges and opportunities in the design of systems for the query, analysis, and visualization of ...

2 [Pen computing: a technology overview and a vision](#)



André Meyer

 July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Publisher: ACM Press

Full text available: pdf(5.14 MB)

 Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

3 [Temporal sequence learning and data reduction for anomaly detection](#)



Terran Lane, Carla E. Brodley

 August 1999 **ACM Transactions on Information and System Security (TISSEC)**, Volume 2 Issue 3

Publisher: ACM Press

Full text available: pdf(628.31 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The anomaly-detection problem can be formulated as one of learning to characterize the

behaviors of an individual, system, or network in terms of temporal sequences of discrete data. We present an approach on the basis of instance-based learning (IBL) techniques. To cast the anomaly-detection task in an IBL framework, we employ an approach that transforms temporal sequences of discrete, unordered observations into a metric space via a similarity measure that encodes intra-attribute dependence ...

Keywords: anomaly detection, clustering, data reduction, empirical evaluation, instance based learning, machine learning, user profiling

4 Acoustic environment classification



Ling Ma, Ben Milner, Dan Smith

July 2006 **ACM Transactions on Speech and Language Processing (TSLP)**, Volume 3 Issue 2

Publisher: ACM Press

Full text available: pdf(768.29 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The acoustic environment provides a rich source of information on the types of activity, communication modes, and people involved in many situations. It can be accurately classified using recordings from microphones commonly found in PDAs and other consumer devices. We describe a prototype HMM-based acoustic environment classifier incorporating an adaptive learning mechanism and a hierarchical classification model. Experimental results show that we can accurately classify a wide variety of every ...

Keywords: Sound classification

5 Object tracking: A survey



Alper Yilmaz, Omar Javed, Mubarak Shah

December 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 4

Publisher: ACM Press

Full text available: pdf(2.60 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The goal of this article is to review the state-of-the-art tracking methods, classify them into different categories, and identify new trends. Object tracking, in general, is a challenging problem. Difficulties in tracking objects can arise due to abrupt object motion, changing appearance patterns of both the object and the scene, nonrigid object structures, object-to-object and object-to-scene occlusions, and camera motion. Tracking is usually performed in the context of higher-level applicatio ...

Keywords: Appearance models, contour evolution, feature selection, object detection, object representation, point tracking, shape tracking

6 Greenstone: a comprehensive open-source digital library software system




Ian H. Witten, Stefan J. Boddie, David Bainbridge, Rodger J. McNab

June 2000 **Proceedings of the fifth ACM conference on Digital libraries DL '00**


Publisher: ACM Press

Full text available: pdf(303.96 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)



This paper describes the Greenstone digital library software, a comprehensive, open-source system for the construction and presentation of information collections. Collections built with Greenstone offer effective full-text searching and metadata-based browsing facilities that are attractive and easy to use. Moreover, they are easily maintainable and can be augmented and rebuilt entirely automatically. The system is extensible: software "plugins" accommodate different document and me ...

- 7 Tools for building digital libraries: Assembling and enriching digital library collections 
David Bainbridge, John Thompson, Ian H. Witten
May 2003 **Proceedings of the 3rd ACM/IEEE-CS joint conference on Digital libraries
JCDL '03**


Publisher: IEEE Computer Society

Full text available:  pdf(576.57 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

People who create digital libraries need to gather together the raw material, add metadata as necessary, and design and build new collections. This paper sets out the requirements for these tasks and describes a new tool that supports them interactively, making it easy for users to create their own collections from electronic files of all types. The process involves selecting documents for inclusion, coming up with a suitable metadata set, assigning metadata to each document or group of document ...



- 8 Learning classifiers: Learning block importance models for web pages 
 Ruihua Song, Haifeng Liu, Ji-Rong Wen, Wei-Ying Ma
May 2004 **Proceedings of the 13th international conference on World Wide Web
WWW '04**

Publisher: ACM Press

Full text available:  pdf(1.23 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

Previous work shows that a web page can be partitioned into multiple segments or blocks, and often the importance of those blocks in a page is not equivalent. Also, it has been proven that differentiating noisy or unimportant blocks from pages can facilitate web mining, search and accessibility. However, no uniform approach and model has been presented to measure the importance of different segments in web pages. Through a user study, we found that people do have a consistent view about the impo ...



Keywords: block importance model, classification, page segmentation, web mining

- 9 Supporting cooperative and personal surfing with a desktop assistant 
 Hannes Marais, Krishna Bharat
October 1997 **Proceedings of the 10th annual ACM symposium on User interface
software and technology UIST '97**


Publisher: ACM Press

Full text available:  pdf(1.37 MB) Additional Information: [full citation](#), [references](#), [citings](#), [index terms](#)

Keywords: WWW, annotation, asynchronous, barcodes, bookmarks, browser, browserware, collaboration, community knowledge, desktop assistant, indexing

- 10 Bringing order to the Web: automatically categorizing search results 
 Hao Chen, Susan Dumais
April 2000 **Proceedings of the SIGCHI conference on Human factors in computing
systems CHI '00**

Publisher: ACM Press

Full text available:  pdf(1.00 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

We developed a user interface that organizes Web search results into hierarchical categories. Text classification algorithms were used to automatically classify arbitrary search results into an existing category structure on-the-fly. A user study compared our

new category interface with the typical ranked list interface of search results. The study showed that the category interface is superior both in objective and subjective measures. Subjects liked the category interface much better than t ...

Keywords: World Wide Web, classification, search, support vector machine, text categorization, text categorization, user interface, user study

11 A comparison of set-based and graph-based visualisations of overlapping classification hierarchies



Martin Graham, Jessie B. Kennedy, Chris Hand

May 2000 **Proceedings of the working conference on Advanced visual interfaces AVI '00**

Publisher: ACM Press

Full text available: pdf(1.58 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The visualisation of hierarchical information sets has been a staple of Information Visualisation since the field came into being in the early 1990's. However, at present, support for visualising the correlations between multiple, overlapping sets of hierarchical information has been lacking. This is despite the realisation that for certain tasks this information is as important as the information that forms the individual hierarchies. In response to this, we have produced two early visuali ...

Keywords: authors kit, conference publications, guides, instructions

12 Scalable browsing for large collections: a case study



Gordon W. Paynter, Ian H. Witten, Sally Jo Cunningham, George Buchanan

June 2000 **Proceedings of the fifth ACM conference on Digital libraries DL '00**

Publisher: ACM Press

Full text available: pdf(308.27 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Phrase browsing techniques use phrases extracted automatically from a large information collection as a basis for browsing and accessing it. This paper describes a case study that uses an automatically constructed phrase hierarchy to facilitate browsing of an ordinary large Web site. Phrases are extracted from the full text using a novel combination of rudimentary syntactic processing and sequential grammar induction techniques. The interface is simple, robust and easy to use. To ...

13 Towards the digital government of the 21st century

Herbert Schorr, Salvatore J. Stolfo

May 2002 **Proceedings of the 2002 annual national conference on Digital government research dg.o '02**

Publisher: Digital Government Research Center

Full text available: pdf(319.96 KB) Additional Information: [full citation](#), [abstract](#)

A partnership between Government agencies and the information technologies research community has succeeded in the past for the benefit of the Nation. The most notable example is the emergence of the Internet as the basis for broad scientific, cultural, civic, and commercial discourse, evolving from what was originally a Government-supported networking research project. The collaborative development of a new applied research domain is critical to help meet the Nation's growing information service ...

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Towards the digital government of the 21st century: a report from the workshop on

research and development opportunities in federal information services

Herbert Schorr, Salvatore J. Stolfo

May 2000 **Proceedings of the 2000 annual national conference on Digital government research dg.o '00****Publisher:** Digital Government Research CenterFull text available:  pdf(339.17 KB) Additional Information: [full citation](#), [abstract](#)

A partnership between Government agencies and the information technologies research community has succeeded in the past for the benefit of the Nation. The most notable example is the emergence of the Internet as the basis for broad scientific, cultural, civic, and commercial discourse, evolving from what was originally a Government-supported networking research project. The collaborative development of a new applied research domain is critical to help meet the Nation's growing information service ...

15 A pipelined memory architecture for high throughput network processors Timothy Sherwood, George Varghese, Brad CalderMay 2003 **ACM SIGARCH Computer Architecture News , Proceedings of the 30th annual international symposium on Computer architecture ISCA '03**, Volume 31 Issue 2**Publisher:** ACM PressFull text available:  pdf(213.66 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)




Designing ASICs for each new generation of backbone routers is a time intensive and fiscally draining process. In this paper we focus on the design of a programmable architecture for backbone routers, based on the manipulation of wide irregular memory words, that can provide a feasible design alternative to custom ASICs. We propose a pipelined memory design that emphasizes worst-case throughput over latency, and co-explore architectural tradeoffs with the design of several important network algo ...

16 Selected M-Related Dissertations Bibliography November 1990 **ACM SIGART Bulletin**, Volume 2 Issue 1**Publisher:** ACM PressFull text available:  pdf(1.98 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

The following are citations selected by title and abstract as being related to AI, resulting from a computer search, using BRS Information Technologies, of the Dissertation Abstracts Online data-base produced by University Microfilms International (UMI).
Agriculture, Animal Culture and Nutrition

17 Special issue on word sense disambiguation: Introduction to the special issue on word sense disambiguation: the state of the art

Nancy Ide, Jean Véronis

March 1998 **Computational Linguistics**, Volume 24 Issue 1**Publisher:** MIT PressFull text available:  pdf(3.44 MB)  [Publisher Site](#) Additional Information: [full citation](#), [references](#), [citations](#)18 Seeing, hearing, and touching: putting it all together Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald RensinkAugust 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04****Publisher:** ACM PressFull text available:  pdf(20.64 MB) Additional Information: [full citation](#)

19 Content-based retrieval: Knowing a tree from the forest: art image retrieval using a society of profiles



Kai Yu, Wei-Ying Ma, Volker Tresp, Zhao Xu, Xiaofei He, HongJiang Zhang, Hans-Peter Kriegel

November 2003 **Proceedings of the eleventh ACM international conference on Multimedia MULTIMEDIA '03**

Publisher: ACM Press

Full text available: pdf(913.29 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper aims to address the problem of art image retrieval (AIR), which aims to help users find their favorite painting images. AIR is of great interests to us because of its application potentials and interesting research challenges---the retrieval is not only based on painting contents or styles, but also heavily based on user *preference profiles*. This paper describes the collaborative ensemble learning, a novel statistical learning approach to this task. It at first applies probabilistic ...

Keywords: art image retrieval, collaborative ensemble learning

20 Music information retrieval: Extracting information from music audio



Daniel <zmh>P.W. <zh>Ellis

August 2006 **Communications of the ACM**, Volume 49 Issue 8

Publisher: ACM Press

Full text available: pdf(414.18 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Information includes individual notes, tempo, beat, and other musical properties, along with listener preferences based on how the listener experiences music.

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